

TKACHUK, F.F.

Case of chloroprivic tetany following use of soda. Vrach.delo no.7:
749-750 J1 '59. (MIRA 12:12)

1. Komsomol'skaya rayonnaya bol'nitsa Vinnitskoy oblasti.
(TETANY) (SODIUM CARBONATES--TOXICOLOGY)

VOLOKH, D.M.; TKACHUK, F.M.

True placenta accreta. Ped., akush. i gin. 20 no.2:55-56 '58.
(MIRA 13:1)

1. Zborovskaya rauonnaya bol'nitsa Tarnopol'skoy oblasti.
(PLACENTA) (LABOR, COMPLICATED)

TKACHUK, G. [Tkachuk, H.], Geroy Sotsialisticheskogo Truda

Many new things happen in Lesovody. Sil'.bud. 10 no.3:5-6 Mr
'60. (MIRA 13:6)

1. Predsedatel' kolkhoza "Ukraina" Gorodetskogo rayona, Khmel'nitskoy oblasti.

(Lesovody--Building)

TKACHUK, G.

Improving breed qualities of cattle. Nauka i pered. op. v sel'khoz.
8 no.3:24-25 Mr '58. (MIRA 11:3)

1. Predsedatel' kolkhoza "Ukraina," Gorodokskogo rayona, Khmel'-nitskoy oblasti.

(Dairy cattle breeding)

TKACHUK, G.B.

Experimental study of the diffusion of resonance radiation in
mercury vapors. Zhur. prikl. spekt. 3 no.1:20-25 Jl '65.
(MIA 18:9)

ACCESSION NR: AP4043016

S/0051/64/017/002/0265/0271

AUTHOR: Tkachuk, G. B.

TITLE: Propagation of radiation in a volume bounded by a reflecting surface

SOURCE: Optika i spektroskopiya, v. 17, no. 2, 1964, 265-271

TOPIC TAGS: light propagation, light reflection, light excitation, electron collision, interferometer, monochromator

ABSTRACT: The situation dealt with in the paper arises when it is necessary to simulate a medium having an infinite optical density. The effect of the reflecting boundaries on the transport of radiation in a spectral line is considered when the reflection coefficient is close to unity. The generation and quenching of the light are realized by impacts of the first and second kind with electrons that have a Maxwellian velocity distribution. The theoretical calculations in-

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ACCESSION NR: AP4043016

dicate that covering a discharge source with a reflecting layer having a large reflection coefficient results in a considerable rectification of the distribution function of the concentration of the excited electrons. This was qualitatively verified by tests on the contour of the 2537 Å line from mercury-acr bactericidal lamp, made with the aid of a quartz Fabry-Perot interferometer crossed with a diffraction monochromator. While the quantitative calculation is made complicated in this case by many extraneous factors, the results of the experiment agree qualitatively with the theory. "The author thanks N. I. Kaliteyevskiy, in whose laboratory the measurements were made, and also V. A. Fabrikant and L. M. Biberman for suggesting the problem and for useful discussions." Orig. art. has: 2 figures, 15 formulas, and 1 table.

ASSOCIATION: None

SUBMITTED: 10Sep63

ENCL: 00

SUB CODE: OP

NR REF SOV: 005

OTHER: 001

2/2

TKACHUK, G.B., inzh.

Experimental study of the light vector of a volume radiator.
Svetotekhnika 9 no.7:23-24 Jl '63. (MIRA 16:7)

1. Moskovskiy energeticheskiy institut.
(Electric lighting)

L 4429-66 ENT(l)/EPA(s)-2/ENT(m)/EPF(c)/EPF(n)-2/EWP(t)/EWP(b) IJP(c) JD/WN/

JG/GG

ACCESSION NR: AP5018841

UR/0368/65/003/001/0020/0025
535.338.32

47
38
B

AUTHOR: Tkachuk, G. B.

TITLE: Experimental investigation of the diffusion of resonant radiation in mercury vapor

SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 1, 1965, 20-25

TOPIC TAGS: physical diffusion, radiation source, radiation effects, mercury vapor lamp, spectral line, light excitation

ABSTRACT: The light field inside a volume filled with mercury vapor was investigated by the luminescent probe method proposed by V. A. Fabrikant (DAN SSSR v. 22, 574, 1939; ZhETF v. 17, 1037, 1947). The method consists of introducing inside the emitter a probe that transforms the incident radiation into radiation of an entirely different wavelength, which is no longer absorbed by the gas and can be measured photometrically from the outside. By displacing the probe, it is possible to carry out the measurements at different points of the gas

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ACCESSION NR: AP5018841

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volume. A diagram of the experimental setup is shown in Fig. 1 of the Enclosure. Measurements were made of the distribution of the concentration of the excited atoms, of the illumination of the probe as a function of its position, and of the dependence of the illumination on the variation of the shape of the source line. The results are compared with the theory of radiation transfer in a spectral line, and also with the diffusion approximation. The behavior of the concentration function of the excited atoms in a plane layer is discussed. The method makes it possible to compare the experimental and theoretical values of the illumination through the layer, both for fixed vapor density and for different optical thicknesses. The author thanks V. A. Fabrikant¹ for direction of the work, and L. M. Biberman² and F. A. Butayeva³ for help during its performance. Orig. art. has: 4 figures, 3 formulas, and 1 table.

ASSOCIATION: None

SUBMITTED: 12Jan65

ENCL: 01

SUB CODE: OP

NR REF Sov: 010

OTHER: 005

Card 2/3

L 4429-66
ACCESSION NR: AP5018841

ENCLOSURE: 01

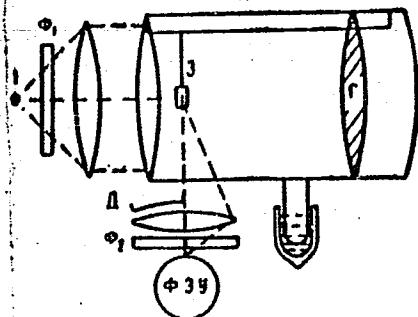


Fig. 1. Diagram of experimental setup.

Φ - filter, 3 - probe, π - diaphragm,
 $\phi\mu$ - photomultiplier, 1 - molybdenum
plate, 1 - lamp (mercury-quartz)

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TFACHOK, G.B.

Propagation of radiation within a volume bounded by a reflecting surface. Opt. i spokr. 17 no.2:265-271 Ag¹⁶⁴
(VZRA 17:8)

Tkachuk G.I.
BOROVSKIY, P. V.

PHASE I BOOK EXPLOITATION

SOV/6206 75

Konferentsiya po teorii plastin i obolochek. Kazan', 1960.

Trudy Konferentsii po teorii plastin i obolochek, 24-29 oktyabrya 1960. (Transactions of the Conference on the Theory of Plates and Shells Held in Kazan', 24 to 29 October 1960). Kazan', [Izd-vo Kazanskogo gosudarstvennogo universiteta] 1961. 426 p. 1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Kazanskiy filial. Kazanskiy gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina.

Editorial Board: Kh. M. Mushtari, Editor; F. S. Isanbayeva, Secretary; N. A. Alumyaev, V. V. Bolotin, A. S. Vol'mir, N. S. Ganiyev, A. L. Gol'denveyzen, N. A. Kil'chevskiy, M. S. Kornishin, A. I. Lur'ye, G. N. Savin, A. V. Sachenkov, I. V. Svirskiy, R. G. Surkin, and A. P. Filippov. Ed.: V. I. Aleksagin; Tech. Ed.: Yu. P. Semenov.

PURPOSE: The collection of articles is intended for scientists and engineers who are interested in the analysis of strength and stability of shells.

Card 1/14

Transactions of the Conference (Cont.)

SOV/6206

COVERAGE: The book is a collection of articles delivered at the Conference on Plates and Shells held in Kazan' from 24 to 29 October 1960. The articles deal with the mathematical theory of plates and shells and its application to the solution, in both linear and nonlinear formulations, of problems of bending, static and dynamic stability, and vibration of regular and sandwich plates and shells of various shapes under various loadings in the elastic and plastic regions. Analysis is made of the behavior of plates and shells in fluids, and the effect of creep of the material is considered. A number of papers discuss problems associated with the development of effective mathematical methods for solving problems in the theory of shells. Some of the reports propose algorithms for the solution of problems with the aid of electronic computers. A total of one hundred reports and notes were presented and discussed during the conference. The reports are arranged alphabetically (Russian) by the author's name.

Card 2/14

Transactions of the Conference (Cont.)	SOV/6206
Selezov, I. T. Investigation of the Propagation of Elastic Waves in Plates and Shells	347
Slepov, B. I. Dynamic Stability of a Circular Cylindri- cal Shell Under Wave-Impact Loading	353
Sochinskiy, S. V., and V. S. Chuvikovskiy. On Nonlinear Dynamic Deformations of Rectangular Plates and Cylindrical Shells	358
Surkin, R. G., and L. A. Kuznetsova. On the Flexural Problem of a Shallow Square Spherical Panel With a Nonlinear Stress-Strain Relationship	362
Teregulov, I. G. On the Theory of Plates of Medium Thickness	367
Tkachuk, G. I. Integral-Differential Equations of the <u>Theory of Thin Elastic Shells of Revolution</u>	376

Card 12/14

TKACHUK, Grigoriy Ivanovich [Tkachuk, H.I.], Geroy Sotsialisticheskogo
Truda; Prinimali uchastiye: YEMETS', V.G.[IEmets', V.H.];
ZLOTNIKOV, R.S.; GARKUSHA, V.Ye.[Harkusha, V.IE.], red.;
CHEREVATSKIY, S.A.[Cherevats'kyi, S.A.], tekhn. red.

[How we fatten and finish livestock]IAk my vidhodovuiuemo i do-
roshchuiemo khudobu. Kyiv, Derzhsil'hospvydav URSR, 1961. 77 p.
(MIRA 16:2)

1. Deputat Verkhovnogo Soveta SSSR (for Tkachuk).
(Stock and stockbreeding)

25109
S/198/61/007/003/004/013
D264/D303

24.4.200

AUTHOR: Tkachuk, H.I. (Kyyiv)

TITLE: Integro-differential equations of the equilibrium problem of shells of rotation of unequal thickness

PERIODICAL: Prykladna mekhanika, v. 7, no. 3, 1961, 266 - 271

TEXT: The author states that the system of equations of equilibrium for shells of variable thickness, written in terms of displacement is a system of eighth-order differential equations with variable coefficients. The difficulty of solving such a system may be reduced, it is claimed, by using the integral equation method, described in M.O. Kil'shevs'kyy and H.I. Tkachuk (Ref. 5: Pro deyaki vlastivosti integral'nykh rivnyan', Skladenykh na osnovi teoremy vzayemnosti robit (On Certain Properties of Integral Equations Formed on the Basis of the Theory of Reciprocity of Action) Prykladna Mekhanika, v. 5, no. 2, 1959). An arbitrary shell is considered under the action of a unit concentrated force, with arbitrary

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Integro-differential ...

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boundary conditions. It is assumed that 1) the shell is isotropic, 2) the thickness is small, 3) the thickness, $2h$, is variable between arbitrary limits, 4) the displacement of points of the shell is small, 5) the Kirchhoff-Love hypothesis holds [Abstractor's note: Hypothesis not stated]. The first, unknown, elastically-deformed state of the surface of the shell corresponds to the action at certain points of N of the surface of a unit concentrated force in the direction of some coordinate line β . The consequent displacement $u(\beta)_i(M, N)$ of the points of the surface is the required Green's tensor. The second, auxiliary, elastically-deformed state is considered to be known. This is chosen so that the points of the surface of the shell have displacements $v(\alpha)_k(N, M)$ which arise from the action of a unit concentrated force in some lamina whose central plane is a "mapping" of the mean surface of the shell. The elastic constants of the lamina are those of the shell. From the theory of reciprocity of action, applied to the basic and auxiliary elastically-deformed states a system of integro-differential equations is obtained

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Integro-differential ...

$$Y_{(\alpha)}^t(M) u_{(\beta)i}(M, N) = X_{(\beta)}^k(N) v_{(\alpha)k}(N, M) - \int \int \int_A A_{(\alpha)}^j(Q, M) u_{(\beta)j}(Q, N) dS_Q + B_{(\alpha)(\beta)}(M, N) + C_{(\alpha)(\beta)}(M, N), \quad (1a)$$

(α, β, i, j, k = 1, 2, 3)

where

$$\begin{aligned} A_{(\alpha)}^1(Q, M) &= K_{(\alpha)}^1(Q, M) - k_1(Q) H_{(\alpha)}^2(Q, M); \\ A_{(\alpha)}^2(Q, M) &= K_{(\alpha)}^2(Q, M) + k_2(Q) H_{(\alpha)}^1(Q, M); \\ A_{(\alpha)}^3(Q, M) &= K_{(\alpha)}^3(Q, M) + F^{-2}(Q) \partial_1 [F^2(Q) H_{(\alpha)}^2(Q, M)] - \\ &\quad - F^{-2}(Q) \partial_2 [F^2(Q) H_{(\alpha)}^1(Q, M)]; \\ C_{(\alpha)(\beta)}(M, N) &= \int_{y_1}^{y_2} [F^2(Q) H_{(\alpha)}^2(Q, M) u_{(\beta)3}(Q, N)]_{x_1}^{x_2} dy_Q - \\ &\quad - \int_{x_1}^{x_2} [F^2(Q) H_{(\alpha)}^1(Q, M) u_{(\beta)3}(Q, N)]_{y_1}^{y_2} dx_Q. \end{aligned} \quad (1b)$$

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Integro-differential ...

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$B(\alpha)(\beta)$ (M, N) is the action of the contoured basic and auxiliary forces on the corresponding displacements, $K_{(\alpha)}^j$, $H_{(\alpha)}^\gamma$ ($\gamma = 1, 2$) are the components of the distributive and instantaneous auxiliary forces, $Y_{(\alpha)}^i$ (M) are the components of the unit concentrated forces of the basic system, $k_1(Q)$, $k_2(Q)$ are the principal curvatures of the given part of the shell; and $F(Q)$ is a metric function over this surface. The evaluation of the elements of (la) is considered; in concrete cases, when $F(Q)$, $Y_{(\alpha)}^i$ (M) and the kernels of the integro-differential equations $A_{(\alpha)}^j$ (Q, M) are known. 1) Knowledge of the function $F(Q)$ leads to the construction of the mapping of the mean surface of the shell. 2) The components of the auxiliary forces $Y_{(\alpha)}^i$ (M) are known. The instantaneous theory of shells is generalized on curvilinear points of an elastic lamina-shell, firstly for the biharmonic problem of the plano-stressed state in plane laminae,

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Integro-differential ...

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S/198/61/007/003/004/013
D264/D303

and secondly for the problem of the bending of plane laminae. Thus the system of differential equations of the equilibrium of shells of revolution of variable thickness can be written in displacements in given forms. Equilibrium equations are also given in the special case of a lamina of constant thickness under the action of unit forces acting tangentially and normally to the coordinate lines. The author finally arrives at the equilibrium problem for a thin elastic shell of revolution.

$$A'_x(Q, M) - K'_x(Q, M) = \Phi_x(\psi(x), u, v, F). \quad (1)$$

Substitution gives the equation for a shell of constant thickness $2h$, and (1a) becomes the integro-differential equation of such a shell. The author concludes by saying that specific problems may be solved by digital methods, using quick-response computers. There are 9 Soviet-literature references.

ASSOCIATION, Kyiv Polytechnic Institute (Polytechnic Insti-
tute in Kyiv)
SUBMITTED: March 22, 1960
Card 5/5

TKACHUK, G. [Tkachuk, H.]

Collective farmers move to new houses. Sil'. bud. 7 no.5:
3-4 Mr '57. (MIRA 13:6)

1. Predsedatel' kolkhoza imeni Khrushchova, Gorodetskogo
rayona, Khmel'nitskoy oblasti.
(Gorodok District---Farmhouses)

TKACHUK, G.I. [Tkachuk, H.I.] (Kiyev)

Integrodifferential equations of the equilibrium problem for shells
of revolution with variable thickness. Prykl.mekh. 7 no.3:266-271
'61. (MIRA 14:6)

1. Kiyevskiy politekhnicheskiy institut.
(Elastic plates and shells)

TKACHUK, Georgiy Ivanovich, Geroy Sotsialisticheskogo Truda; KATSNEL'SON,
S.M., red.; SAVCHENKO, Ye.V., tekhn.red.

[Experience in the management of the "Ukraina" Collective Farm]
Opyt organizatorskoi raboty kolkhoza "Ukraina." Moskva, Izd-vo
"Znanie," 1960. 46 p. (Vsesoiuznoe obshchestvo po rasprostra-
neniiu politicheskikh i nauchnykh znanii. Ser.5, Sel'skoe kho-
ziaistvo, no.19).
(MIRA 13:10)

1. Predsedatel' khokhoza "Ukraina" (for Tkachuk).
(Gorodok District--Collective farms)

TKACHUK G.I.

We are lowering labor costs. Nauka i pered.op. v sel'khoz.no.9:37-
38 S '56. (MLRA 9:10)

1. Predsedatel' kolkhoza imeni Khrushcheva, Gorodokskogo rayona,
Khmel'nitskoy oblasti.
(Collective farms)

KIL'CHEVSKIY, N.A. [Kil'chevs'kiy, M.O.] (Kiyev); KOMISSAROVA, G.L.
[Komisarova, H.L.] (Kiyev); TKACHUK, G.I. [Tkachuk, H.I.]

Longitudinal vibrations of systems consisting of similar elements.
Prykl.mekh. 7 no.6:609-615 '61. (MIRA 14:11)

1. Institut mekhaniki AN USSR.
(Elastic solids--Vibration)

KIL'CHEVSKIY, N.A. [Kil'chev'skiy, M.O.] (Kiyev); TKACHUK, G.I.
[Tkachuk, H.I.] (Kiyev)

Some properties of integral equations based on the theorem of
reciprocity of work. Prykl. mat., 5 no. 28210-212 '59.
(MIRA 1219)

1. Kiyevskiy politekhnicheskiy institut.
(Integral equations)

L 16743-63

EWP(r)/EWT(m)/BDS AFFTC

S/124/63/000/004/036/064

AUTHOR: Tkachuk, G. I.

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TITLE: Integro-differential equations of the theory of thin rotation shells

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 4, 1963, 8, abstract 4V57
(Tr. Konferentsii po teorii plastin i obolochek, 1960, Kazen', 1961,
376-381)

TEXT: A study is made of the stress-deformation condition of an isotropic thin shell of constant thickness, which is under the influence of an arbitrary load, with arbitrary boundary conditions. The dislocations are slight; the Kirchoff-Lyav hypothesis is used. The author uses N. A. Kil'chevskiy's method of functional equations, based on the use of the theorem of work reciprocity. A system of integro-differential equations for the equilibrium of the shell is derived, with methodology for solution. Finally, the problem is reduced to the solution of a system of linear algebraic equations. As an example the author takes a truncated spherical shell of constant thickness which is under the influence of a wind load, of concentrated forces, and of a vertical load distributed on the upper shoulder of the shell. L. Yu. Poverus.

[Abstracter's note: Complete translation.]

Card 1/1

TKACHUK, G. N., Cand of Tech Sci -- (miss) "Experimental and Theoretical investigation of the Added Resistance of Recesses and Openings in the Hull of a Ship," Leningrad, 1959, 17 pp (Leningrad Ship-Building Institute) (KL, 8-60, 117)

ACC NR: AR6035383

(N)

SOURCE CODE: UR/0398/66/000/009/A022/A022

AUTHOR: Tkachuk, G. N.

TITLE: Investigation of hydrodynamic pressures in holes cut in the outer plating of a ship's hull

SOURCE: Ref. zh. Vodnyy transport, Abs. 9A135

REF. SOURCE: Tr. Leningr. korablestroit. in-ta, vyp. 48, 1965, 29-36

TOPIC TAGS: ship component, air flow, flow distribution, pressure distribution, hydrodynamics

ABSTRACT: The experiments were made in the aerodynamic stand of the Hydromechanic Department of Leningrad Shipbuilding Institute. Four models were tested. The maximum air velocity in the channel was 12 m/sec. Plots are presented of the coefficient of excess pressure in the central longitudinal sections of the investigated holes. The results can be used in the construction of individual openings in the outer plating of a ship's hull. 9 illustrations. Bibliography, 6 titles. Ye. Sukacheva, [Translation of abstract]

SUB CODE: 20,13

Card 1/1

UDC: 629.12:624.02/9

TKACHUK, G.N., SEMENOV-TYAN-SHANSKIY, V.V., FADEYEV, Yu.I.

"The Determination of the Hydrodynamic Characteristics of the Lateral Pitching of Marine Transport Vessels on the Basis of Results Obtained in a Series of Tests."

report presented at the 11th Annual Scientific Technical Conference on Ship Theory, organized by the Central Administration of the Scientific-Technical Society of the Shipbuilding Industry, 13-15 December 1960.

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26.410

AUTHOR:

Tkachuk, G.N.

TITLE:

Investigating the field of velocity and pressure
in bays having the form of a rectangular parallele-
piped

PERIODICAL:

Referativnyy zhurnal. Mekhanika, no. 10, 1961, 58,
abstract 10 B386 (Tr. Leningr. Korabstroit. in-ta,
1959, no. 28, 63-71)TEXT: On an aerodynamical stand whose working part is
rectangular in cross-section an investigation is carried out on the
field of velocity and pressure in bays having the form of a rectan-
gular parallelepiped. The experiment is conducted with full consid-
eration of the effect of the dimensions of the bay, and the velocity
of the external current along the axis of the canal upon the distri-
bution of pressure on the walls and bottom of the bay. Epures of

Card 1/2

X

Investigating the field...

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D251/D301

velocity and pressure are obtained for various dimensions of the bay and various velocities of the external current. [Abstracter's note: Complete translation.]

Card 2/2

X

TKACHUK, G. N., Engineer,

"Investigation of the Additional Resistance of Recesses and Apertures in a Ship Hull."

Papers Presented at the Tenth Scientific-Technical Conference on Ship Theory
(Sudostoryeniye, No 4, 1960)

TKACHUK, G.N., inzh.

Formulas for calculating recess and opening resistance in ship
hulls. Sudostroenie 25 no.10:9-13 O '59. (MIRA 13:2)
(Hulls (Naval architecture))

TKACHUK, G.N.

Study of the range of speeds and pressures in a recess shaped
like a rectangular parallelepiped. Trudy LKI no.28:63-71
'59. (MIRA 15:5)

1. Kafedra teorii korablya Leningradskogo korablestroitel'nogo
instituta.

(Ship resistance)

ZOLOTAREV, I. (Lugansk); TKACHUK, I. (Sumgait); KALITKIN, I. (Sumgait)

Again about the quality of fire engines. Pozh.delo 4 no.12:21
D '50. (MIRA 11:12)

1. Zamestitel' nachal'nika pozharnoy chasti (for Zolotarev).
(Fire engines)

TKACHUK, I.F., inzh.

High-power crawler tractors. Mashinostroenie no.3:60-63 My-Je '64.
(MIRA 17:11)

TKACHUK, I.V.

Obodovka and Verkhovka Parks in Vinnitsa Province. Visnyk Bot.
sada AN URSR no.4:66-71 '62. (MIRA 16:1)
(Obodovka--Parks) (Verkhovka--Parks)

BAKHTIN, O.B., inzh.; TKACHUK, K.N., inzh.; KUDRYAVTSEV, M.V., inzh.

Results of tests of new explosives in a pit of the New Krivoy
Rog Mining and Ore Dressing Combine. Nauch.zap.Ukrniiproekta
no.5:157-159 '61. (MIRA 15-7)
(Krivoy Rog Basin—Explosives—Testing)

POVZNER, Z.B., gornyy inzh.; SERBIN, V.I., gornyy inzh.;
CHERKONOG, A.I., gornyy inzh.; TKACHUK, K.I., gornyy inzh.

Dolomite strip mine in Krivoy Rog Basin. Sbor. nauch. trud.
KGRI no.15:86-89 '63. (MIRA 17:8)

TKACHENKO, A.N.; TKACHUK, E.N.; VASILYEV, B.V.; KOSOVITY, V.G.

Dependence of the coefficient of the loosening up of rock on
the technology of blasting operations in a strip mine. Sbor.
nauch. trud. MGIT no. 23:19-47 1/5
(MTRA 1740)

KITACH, G.M., kand. tekhn. nauk; TKACHUK, K.N., gornyy inzh.

Designing borehole charges at strip mines of Krivoy Rog
mining and ore dressing combines. Gor. zhur. no.9:32.
34 S '64. (MIRA 17:12)

1. Krivorozhskiy gornorudnyy institut.

PRESENT AND PREDICTED STATE

The Boguslav granite and its interrelation with the surrounding pre-Cambrian crystalline rocks L. G. Tkachuk. *J. Geol. Acad. Sci. Ukrainsk. S.S.R.* 4, 75-116 (1957). The Ross River (Ukraine) plutonic granites are porphyritic, grading off to biotite Boguslav granite, then to the nonporphyritic biotite Zhitomir granite, and finally into the aplito-pegmatitic pink granite before the gneiss cover is reached. F. H. Rathmann

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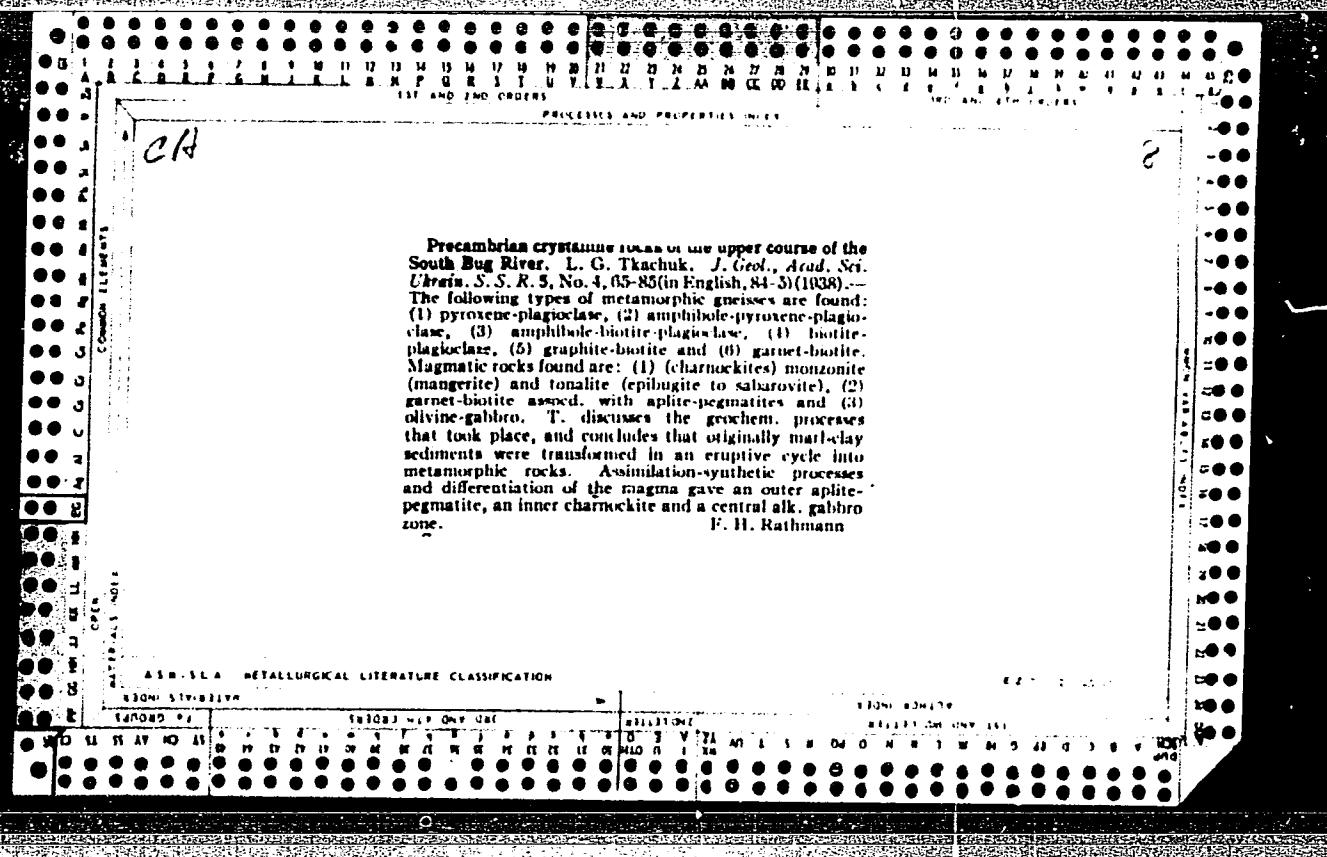
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ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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APPROVED FOR RELEASE: 07/16/2001

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PRINCIPLES AND PRACTICE 2013

Charnockites and their accompanying Precambrian rocks of the southeastern part of the Kiev and the northern part of the Kirovgrad Regions of the Ukrainian S. S. R. L. G. Tkachuk. *J. Geol., Acad. Sci. Ukraine, S. N. R.*, 7, No. 3, 153-90 (in English, 197-0) (1940). — The Precambrian crystal rocks are represented by: metamorphic pyroxeno-plagioclase, biotite, biotito-garnet and amphibolo-plagioclase gneisses. The fluctuation of biotite and garnet content indicates a sedimentary origin. The chief igneous rocks are gabro-norite-syenite, amphibolo granophyre and rapakivi, and hypersthene quartz and dolomite is present in all the magmatic rocks with exception of the hypersthene ones in which it is completely absent. The charnockites are characterized by sodium tonalite, quartz dorite and monzonites and occupy lower horizons of the intrusive massif. Cassiterite is present in the Kotosten granite. A large no. of chem. analyses are given. F. H. Rathmann

P. H. Rathmann

100-100 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755920019-2"

TKACHUK, L.

[Petrography of the northwestern part of the Ukrainian crystalline massif; Rovno Province] Petrohrafiia pivnichno-zakhidnoi chastyi ukraint'skogo krystalichnogo masyvu; Rovens'ka oblast'. [L'viv] Vydannia L'viv'skogo heolohichnogo tovarystva, 1948 (MLRA 9:3) (Rovno Province--Petrology)

TKACHUK, L.G. [Tkachuk, L.H.]; KOLTUN, V.I.

Some problems of karst in the gypsum-anhydrite horizon of the
Dniester Valley. Geol. zhur. 23 no.4:68-74 '63 (MIRA 17:7)

1. Institut geologicheskikh nauk AN UkrSSR.

TKACHIK, L. G.

Tkachik, L. G. "Memoirs of V. N. Chirvinskiy (Geologist, 1883-1942)," Mineral. sbornik, No. 2, 1948, p. 220-25, with picture - Bibliog: "List of printed works of Professor V. N. Chirvinskiy", 34 items

SG: 0-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

TKACHUK, L.G.

USSR/ Geology - Petrography

Card 1/1 Pub. 22 - 41/52

Authors : Porfir'yev, V. B., and Tkachuk, L. G.

Title : Volcanic ash in the red-colored strata of the Cheleken peninsula

Periodical : Dok. AN SSSR 100/2, 355-358, Jan 11, 1955

Abstract : The discovery of volcanic ashes in the red-colored strata of the Cheleken peninsula is announced. The chemical and mineral composition of the Cheleken volcanic ashes are described. Four USSR references (1911-1941). Tables.

Institution : Academy of Sciences Ukr. SSR, Institute of the Geology of Minerals

Presented by : Academician D. V. Nalivkin, October 1, 1954

TKACHUK, L. G.

Category: Romania

Abs Jour: RZh--Kh, No 3, 1957, 7830

D

Author : Tkachuk, L. G., Gurzhiy, D. V., and Krivin, A. L.
Inst :

Title : New Data on the Diabases and Serpentinites of the Rakhov
Crystalline Massif (Carpathians)

Orig Pub: Dokl. AN SSSR, 1955, Vol 104, No 6, 912-915; AN. Rom.-Sov. geol.-
geogr., 1956, Vol 10, No 3, 52-56 (in Romanian)

Abstract: On the basis of an investigation of the chemical and petrographic
composition and the conditions of the formation of the diabases and
serpentinites of the above-indicated massif, it has been established
that the diabases and related rocks are related to a prolonged volcanic
activity (from the upper Jurassic to the upper Cretaceous) and differ-
ence in their chemical composition can be explained by postulating
that the differentiation of the magmatic reservoir proceeded in the
direction of a decrease in SiO_2 , an increase in Al_2O_3 , and changes in

Card : 1/2

-13-

TKACHUK, Luk'yan Grigor'yevich; GURZHIY, Dmitriy Vasil'yevich; RIPUN,
Mariya Borisovna; PORFIR'YEV, V.B., otvetstvennyy redaktor;
LISENBART, D.K., redaktor izdatel'stva; SIVACHEMKO, Ye.K., tekhnicheskiy redaktor

[Lithology of Miocene deposits of the Chernovitsy and Southeastern parts of Stanislav Province] Litologiya miotsenovykh otlozhenii Chernovitskoi i iugo-vostochnoi chasti Stanislavskoi oblastei. Kiev, Izd-vo Akademii nauk USSR, 1956. 128 p. (MIRA 9:?)

1. Chlen-korrespondent AN USSR (for Porfir'yev)
(Stanislav Province--Petrology)

15-57-12-17213

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12,
p 69 (USSR)

AUTHORS: Tkachuk, L. G., Ivanova, G. N., Savitsyna, A. A.

TITLE: The Charnockite-Norite Rocks of the Moldavskaya SSR
(Charnokito-noritovyye porody Moldavskoy SSR)

PERIODICAL: Nauchn. zap. L'vovsk. politekhn. in-t., 1956, Nr 46,
pp 106-111

ABSTRACT: Ancient Precambrian rocks occur along the right bank
of the Dnestr River below the village of Kosoutsa.
They are predominantly red granites (or pink) of the
Dnepr type and are an extension of the Precambrian
crystalline rocks of the Ukrainian crystalline shield.
The rocks of the charnockite-norite series are exposed
on the right bank of the Dnestr River and are strongly
weathered on the surface. On fresh exposures they are
dark gray and fine grained. They consist of

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15-57-12-17213

The Charnockite-Norite Rocks (Cont.)

plagioclase, ranging from andesine (An_{44-48}) and labradorite ($An_{52-56-60-67}$) to pure anorthite (An_{90-100}), clinohypersthene (extinction angle to $Ng\ 30^\circ$ to 10° , $Ng-Np = 0.012$), diopside (extinction angle to $Ng\ 430^\circ$, $Ng-Np = 0.027$), and hornblende (extinction angle to $Ng\ 120^\circ$ to 180° , $Ng-Np = 0.016$). Chemical analyses of these rocks are given in the table (in percent). Petrochemically the rocks are very similar to the rocks of the Podolian charnockite-norite complex, on the one hand, and to the pyroxene-plagioclase gneisses, on the other. Consequently the rocks of the charnockite-norite complex are seen to be the products of various petrogenetic processes, which, although they produced granite intrusions, cannot be considered strictly magmatic. Therefore the charnockite-norite complex should not be considered of magmatic origin.

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15-57-12-17213

The Charnockite-Norite Rocks (Cont.)

Components	1	2	3	4
SiO ₂	47.46	52.78	55.24	62.00
TiO ₂	2.50	2.40	1.83	1.93
Al ₂ O ₃	15.28	13.94	14.04	12.46
Fe ₂ O ₃	7.78	5.80	3.20	2.67
FeO	8.28	9.70	10.05	6.94
MnO	0.13	0.22	0.21	0.16
MgO	5.65	4.75	4.71	2.84
CaO	9.76	7.92	7.83	8.32
Na ₂ O	0.45	tr	0.45	tr
K ₂ O	0.46	None	None	None

Card 3/4

The Charnockite-Norite Rocks (Cont.)

15-57-12-17213

P ₂ O ₅	0.46	0.66	0.85	1.16
H ₂ O 105°	0.08	None	0.06	None
Others	0.11	None	0.12	0.12
S ₀ 3	1.23	0.89	0.48	0.49
Spyr	0.62	0.50	0.60	0.70
Total	100.25	99.56	99.67	99.79

Card 4/4

O. V. Bryzgalin

TKACHUK, Luk'yan Grigor'yevich; GURZHIY, Dmitriy Vasil'yevich; PORFIR'YEV,
V.B., akademik, otvetstvennyy redaktor; OVCHAROVA, Z.G., redaktor
izdatel'stva; ROZHETSVEYG, Ye.N., tekhnicheskiy redaktor

[Rakhov crystalline massif (in the Carpathians)] Rakhovskii kristalli-
cheskii massiv (Karpaty). Kiev, Izd-vo Akad.nauk USSR, 1957. 123 p.
(MLRA 10:8)

1. Akademiya nauk USSR (for Porfir'yev)
(Transcarpathia--Rocks, Crystalline and metamorphic)

AYZENVERG, D.Ye., geolog; BALUKHOVSKIY, N.F., geolog; BARTOSHEVSKIY, V.I., geolog; BASS, Yu.B., geolog; VADIMOV, N.T., geolog; GLADKIY, V.Ya., geolog; DIDKOVSKIY, V.Ya., geolog; YERSHOV, V.A., geolog; ZHUKOV, G.V., geolog; ZAMDRUY, P.K., geolog; IVANTISHIN, M.N., geolog; KAPTARENKO-CHERNOUSOVA, O.K., geolog; KLIMENKO, V.Ya., geolog; KLUSHIN, V.I., geolog; KLYUSHNIKOV, M.N., geolog; KRASHENINNIKOVA, O.V., geolog; KUTSYBA, A.M., geolog; LAPCHIK, F.Ye., geolog; LICHAK, I.L., geolog; MAKUKHINA, A.A., geolog; MATVIYENKO, Ye.M., geolog; MEDYNA, V.S., geolog; MOLYAVKO, G.I., geolog; NAYDIN, D.P., geolog; NOVIK, Ye.O., geolog; POLOVKO, I.K., geolog; RODIONOV, S.P., geolog; SEMENENKO, N.P., akademik, geolog; SERGEYEV, A.D., geolog; SIROSHTAN, R.I., geolog; SLAVIN, V.I., geolog; SUKHAREVICH, P.P., geolog; TKACHUK, L.G., geolog; USENKO, I.S., geolog; USTI-NOVSKIY, Yu.B., geolog; TSAROVSKIY, I.D., geolog; SHUL'GA, P.L., geolog; YURK, Yu.Yu., geolog; YAMNICHENKO, I.M., geolog; ANTROPOV, P.Ya., glavnnyy redaktor; FILIPPOVA, B.S., red. izd-va; GUROVA, O.A., tekhn.red.

[Geology of the U.S.S.R.] Geologija SSSR. Glav. red. P.IA.Antropov. Vol.5.[Ukrainian S.S.R., Moldavian S.S.R.] . . . Ukrainskaia SSR, Moldavskaya SSR. Red. V.A. Ershov, N.P. Semenenko. Pt.1.[Geological description of the platform area] Geologicheskoe opisanie platformoi chasti. Moskva, Gos. nauchno-tekhnic.izd-vo lit-ry po geol. i okhrane nadr. 1958. 1000 p. [Supplement] Prilozheniya.

(Continued on next card)

AYZENVERG, D.Ye.---(continued) Card 2.
3 fold.maps (in portfolio)

(MIRA 12:1)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geologii i okhrany nedr.
2. Ukrainskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedr SSSR i Institut geologicheskikh nauk Akademii nauk USSR (for all except Antropov, Filippova, Gurova).
3. Glavnyy geolog Ukrainskogo geologicheskogo upravleniya (for Yershov).
4. AN Ukrainskoy SSR (for Semenenko).
(Ukraine--Geology) (Moldavia--Geology)

TKACHUK, L.G.; KUDRIN, L.N.; RIPUN, M.B.

Volcanic tuffs of the Neogene in western regions of the Ukrainian
S.S.R. Vop.min.osad.oabr. 5:126-141 ' 58. (MIRA 12:3)
(Ukraine--Volcanic ash, tuff, etc.)

TKACHUK, L.G.

26-58-6-39/56

AUTHOR: Vyalov, O.S., Professor and Tkachuk, L.G., Professor

TITLE: Lime Crusts from Antarctica (*Izvestkovyye korochki iz Antarktiki*)

PERIODICAL: Priroda, 1958, Nr 6, p 113-114 (USSR)

ABSTRACT: The author tells of the observations he made at the Mirnyy station in the Antarctica. Among the protruding granitoids and gneisses of the small volcanoes he found large quantities of grey lime crusts of peculiar shape, none of which was over 4-10 mm thick. Under the microscope they were found to consist of fine-grained calcite containing small quantities of quartz, feldspar, hornblende, pyroxene, garnet and iron. Some of these crusts are covered by irregular bud-shaped calcite crystals (Fig. 2) which, according to the author, probably originate from sprays of sea water containing calcium salts. Since these crusts have faint indications of glacial scratchings, it must be concluded that their origin dates back to the preglacial epoch. There are 2 photos.

ASSOCIATION: Institut geologii poleznykh iskopayemykh Akademii nauk USSR (L'vov) (Institute of the Geology of Minerals of the UkrSSR Academy of Sciences, L'vov)

Card 1/1 1. Geology-Antarctica

VYALOV, O.S.; TKACHUK, L.G. [Tkachuk, L.H.]

Sedimentary rocks from Cape Town and Antarctic moraine. Geol.
zhur. 18 no.1:39-45 '58. (MIRA 11:5)
(Cape town--Rocks, Sedimentary)
(Antarctic regions--Rocks, Sedimentary)

VYALOV, O.S.; TKACHUK, L.G. [Tkachuk, L.H.]

Limestone scales from the vicinity of Miruy in the Antarctic. *Geol.*
zhur. 18 no. 2:80-82 '58. (NERA 11:7)
(Antarctic regions--Limestone)

RIPUN, M.B. [Rypun, M.B.]; TKACHUK, L.G. [Tkachuk, L.H.]

On some autogenous mineral formations in oil-bearing deposits
of the cis-Carpathian Region. Geol. zhur. 18 no.4;32-37 '58.
(MIRA 12;1)

(Carpathian Mountain region--Oil sands)

KOLTUN, Vladimir Ivanovich; TKACHUK, L.G. [Tkachuk, L.H.], prof., doktor
geologo-mineral.nauk, otd.red.; CHEKHOVICH, N.Ya., red.izd-va;
RAKHLINA, N.P., tekhn.red.

[Lithology of Stebnik sediments in the northwestern part of the
Soviet cis-Carpathian region] Litologiya stebnyts'kykh vidkladiiv
pivnichno-zakhidnoi chastyyny Radians'koho Perekarpattia. Kyiv,
Vyd-vo Akad.nauk URSR, 1959. 124 p. (MIRA 12:10)
(Carpathian mountain region--Petrology)

TKACHUK, L.G. [Tkachuk, L.H.]; GURZHIY, D.V. [Hurzhii, D.V.]; KOLTUN, V.I.;
RIPUN, M.B.

Progress in petrographic studies of western regions of the
Ukraine during the Soviet regime. Pratsi Inst. geol. kor.
kop. AN URSR 1:108-117 '59. (MIRA 14:6)
(Ukraine—Petrology)

TKACHUK, L.G. [Tkachuk, L.H.]; GURZHIY, D.V. [Hurzhii, D.V.]; KOLTUN, V.I.

Clay oolites in old sedimentary formations of the Russian Platform.
Geol. zhur. 20 no.2:84-89 '60. (MIRA 14:5)
(Russian Platform---Oolite)

BONDARCHUK, Vladimir Gavrilovich; TKACHUK, L.G., doktor geologo-miner. nauk,
otv. red.; STAROSTENKO, T.N., red.; MATVIICHUK, A.A., tekhn. red.

[Geological monuments of the Ukraine] Geologicheskie pamyatniki Ukrayiny. Kiev, 1961. 78 p. (Obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii Ukrainskoi SSR. Ser.6, no.13-14)
(MIRA 14:11)

(Ukraine—Geology)

TKACHUK, L.G., doktor geol.-mineral. nauk, prof., otd. red. [Tkachuk, L.H.];
MEL'NIK, G.F. [Mel'nyk, H.F.], red. izd-va; MATVIICHUK, O.O., tekhn.
red.

[Natural building materials from the western provinces of the Ukraine]
Pryrodni budivel'ni materialy zakhidnykh oblastei Ukrayiny. Kyiv, Vyd-
vo Akad. nauk URSR, 1961. 146 p. (MIRA 14:11)

1. Akademiya nauk URSR, Kiev. Instytut geologii korysnykh kopalyin.
(Ukraine, Western--Building materials industry)

KOSTYUK, Vadim Pavlovich; TKACHUK, L.G. [Tkachuk, L.H.], doktor geologo-min. nauk, otv. red.; MEL'NIK, G.F. [Mel'nyk, H.F.], red. izd-va; MATVIICHUK, O.O., tekhn. red.

[Geology and petrography outline of magmatic activity in the Carpathian Mountains] Geologo-petrografichnyi narys magma-tyzmu Karpat. Kyiv, Vyd-vo Akad. nauk URSR, 1961. 156 p.
(MIRA 14:9)

(Carpathian Mountains—Rocks, Igneous)

KOVALENKO, Daniil Naumovich; SEMENOV, Viktorin Grigor'yevich
[Semenov, V.H.]; TKACHUK, L.G. [Tkachuk, L.H.], doktor
geol.-miner. nauk prof., otv. red.; MEL'NIK, G.F.
[Mel'nyk, H.F.], red.

[Phosphorites of the Ukraine] Fosforyt Ukrayiny. Kyiv,
Naukova dumka, 1964. 177 p. (Serija geologii rodovyschch
korysnykh kopalyn, no.13) (MIRA 19:1)

SEMENENKO, N.P., akademik, otv. red.; TKACHUK, L.G., doktor geol.-miner. nauk, zam. otv. red.; VYALOV, O.S., red.; PORFIR'YEV, V.B., red.; SUBBOTIN, S.I., red.; LAZARENKO, Ye.K., red.; BELEVTSOV, Ya.N., red.; POPOV, V.S., red.; SOLLOGUB, V.B., doktor geol.-miner. nauk, red.; CHEKHOVICH, N.Ya., red.; BYCHKOVA, R.I., red.

[Materials of the Sixth Congress of the Carpatho-Balkan Geological Association; reports of the Soviet geologists] Materialy VI s"ezda Karpato-Balkanskoi geologicheskoi assotsiatsii; doklady sovetskikh geologov. Kiev, Naukova dumka, 1965. 461 p. (MIRA 18:10)

1. Karpato-Balkanskaya geologicheskaya assotsiatsiya. 6.s"ezd.
2. AN Ukr.SSR (for Semenenko). 3. Chlen-korrespondent AN Ukr.SSR (for Lazarenko, Belevtsev, Popov).

TKACHUK, L.G. [Tkachuk, L.H.]; SEN'KOVSKIY, Yu.M. [Sen'kovs'kyi, Iu.M.];
IVANNIKOV, A.V. [Ivannikov, O.V.]

New data on the lithology of Cretaceous sediments in Kanievskiy
dislocations. Geol. zhur. 24 no.5:41-49 '64. (MIRA 17:12)

1. Institut geologicheskikh nauk AN UkrSSR i Institut geologii
i geokhimii goryuchikh iskopayemykh AN UkrSSR.

TKACHUK, L.G. [Tkachuk, L.H.], doktor geol.-mineral. nauk

Schematic sketch of the geological structure of the Ukraine.
[Pratsi] Inst. geol. nauk AN URSR. Ser. geol. rod. kor. kop.
no.1:5-9 '63.

Igneous and metamorphic rock as building materials. Ibid.:
10-33

(MIRA 18:6)

KOVALENKO, Daniil Isaumovich; SEMENOV, Viktorin Grigor'yevich; TKACHUK,
L.G., doktor geol.-mineral. nauk, prof., ctv. red.; MEL'NIK, G.P.,
red.

[Phosphorite of the Ukraine.] Fosforyty Ukrayny. Kyiv, Naukova
dumka, 1964. 177p. (Akademiia nauk URSR. Instytut geologichnykh
nauk. Pratsi. Seriya geologii rodovishch korysnykh kopalyn, no.13).
(MIRA 18:3)

TKACHUK, L.G., doktor geol.-mineral. nauk

Conference of the Committee on Magmatism and Petrology. Vest.
AN SSSR 33 no.10:95-96 O '63.
(MIRA 16:11)

BABINETS, A.Ye.; BELEVTSOV, Ya.N.; BONDARCHUK, V.G.; KONDRACHUK, V.Yu.;
POVARENYYKH, A.S.; SEMENENKO, N.P.; SKURIDIN, S.A.;
TKACHUK, L.G.

In memory of Sergei Petrovich Radionov. Zap. Ukr. otd.
Min. ob-va [no.1]:173-178 '62. (MIRA 16:8)

SEMENENKO, N.P., akademik, otv. red.; TKACHUK, L.G., doktor geol.-miner. nauk, zam. ctv. red.; SUBBOTIN, S.I., akademik, red.; LAZARENKO, Ye.K., red.; BELEVTSOV, Ya.N., red.; POPOV, V.S., red.; SOLLOGUB, V.R., kand. geol.-miner. nauk, red.; MEL'NIK, A.F., red.; ZAVIRYUKHINA, V.N., red.; DAKHNO, Yu.B., tekhn. red.

[Materials of the Fifth Congress of the Carpatho-Balkan Geological Association; reports of Soviet geologists] Materialy; doklady sovetskikh geologov. Kiev, Izd-vo Akad. nauk USSR, 1962. 309 p. (MIRA 16:8)

1. Karpato-Balkanskaya geologicheskaya assotsiatsiya. 5th, Bucharest, 1961. 2. Akademiya nauk Ukr.SSR (for Semenenko, Subbotin). 3. Chleny-korrespondenty AN Ukr.SSR (for Lazarenko, Belevtsev, Popov).

(Carpathian Mountains--Geology)
(Balkan Mountains--Geology)

SEMENENKO, M.P., akademik, otv. red.; POVARENYYKH, O.S., doktor geol. nauk, prof, zam. otv. red.; BURKSER, E.S., red.; IVANTISHIN, M.M. [Ivantyshyn, M.M.], doktor geol.-min. nauk, red.; TKACHUK, L.G. [Tkachuk, L.H.], doktor geol-min, nauk, prof., red.; SHNYUKOV, E.F., kand. geol.-min. nauk, red.; LISOVETS', O.M. [Lysovets', O.M.], tekhn. red.

[Geochemistry, mineralogy, and petrography; on the centenary of the birth of K.I. Vernadskii, First President of the Academy of Sciences of the Ukrainian S.S.R.] Pytannia geo-khimii, mineralogii i petrografii; do 100-lichchia z dnia narozhdeniya pershoho prezidenta AN Ukrains'koi RSR akademika V.I. Vernads'koho. Kyiv, Vyd-vo AN UkrSSR, 1963. 335 p.

(MIRA 16:8)

1. Akademiya nauk UkrSSR, Kiev. Instytut geologichnykh nauk. 2. Akademiya nauk UkrSSR (for Semenenko). 3. Chlen-korrespondent AN UkrSSR (for Burkser).

(Geochemistry) (Mineralogy) (Petrology)
(Vernadskii, Vladimir Ivanovich, 1863-1945)

PORFIR'YEV, V. B. [Porfir'iev, V. B.], akademik; GRINBERG, Y. V.
[Hrinberh, I. V.]; LADYZHENSKIY, M. R. [Ladyzhens'kyi, M. R.];
LINETSKIY, V. P. [Linets'kyi, V. P.]; GALABUTSKAYA, K. A.
[Halabuts'ka, K. A.]; TKACHUK, L. G. [Tkachuk, L. H.];
SVARICHEVSKIY, L. V. [Svarychevs'kyi, L. V.]; RIPUN, M. B.
[Rypun, M. B.]; GABINET, M. P. [Habinet, M. P.]; CHEKHOVICH,
N. Ya. [Chekhovych, N. IA.], red.; MATVIICHUK, O. O., tekhn.
red.

[Carpathian menilite shales] Menilitovi slantsi Karpat. Kyiv,
Vyd-vo Akad. nauk URSR, 1963. 204 p. (MIRA 16:6)

1. Akademiya nauk Ukr. SSR (for Porfir'yev). Institut geologii
goryuchikh iskopayemykh AN Ukr.SSR (for all except Chekhovich,
Matviichuk).

(Carpathian Mountains--Oil shales)

SEmenenko, N.P., akademik, otv. red.; SUBBOTIN, S.I., akademik, red.;
TKACHUK, L.G., doktor geol.-miner. nauk, zam. otv. red.;
LAZARENKO, Ye.K., red.; BELEVTSOV, Ya.N., red.p PUPOV, V.S.,
red.; SOLLOGUB, V.B., kand. geol.-miner. nauk, red.;
ZAVIRYUKHINA, V.N., red.; MEL'NIK, A.F., red.; DAKHNO, Yu.B.,
tekhn. red.

[Materials of the Fifth Conference of the Carpatho-Balkan
Geological Association] Materialy V s"ezda Karpato-Balkanskoi
geologicheskoi assotsiatsii. Kiev, Izd-vo Akad. nauk URSR,
1962. 309 p.
(MIRA 16:4)

1. Karpato-Balkanskaya geologicheskaya assotsiatsiya. 5. s"ezd.
2. Akademiya nauk Ukr.SSR (for Semenenko, Subbotin).
(Carpathian Mountains--Geology)
(Balkan Mountains--Geology)

LAZARENKO, Ye.K.; MATKOVSKIY, O.I.; TKACHUK, L.G.

S.P. Rodionov; obituary. Min. sbor. no.15:444-446 '61. (MIRA 15:6)

1. Gosudarstvennyy universitet, L'vov (for Lazarenko, Matkovskiy).
2. Institut geologicheskikh nauk AN USSR, Kiyev (for Tkachuk).
(Rodionov, Sergei Petrovich, 1898-1961)

LAZARENKO, Ye.K.; TKACHUK, L.G.

New stage in the study of iron-ore formations of the Soviet
Ukraine. Min.sbor. no.14:391-394 '60. (MIRA 15:2)

1. Institut geologii poleznykh iskopayemykh AN USSR, L'vov.
(Ukraine---Iron ores)

MAKUKHINA, Anna Aleksandrovna [Makukhina, H.O.]; TKACHUK, L.G. [Tkachuk, L.H.], prof., otv.red.; CHEHOVICH, N.Ya. [Chekhovich, N.IA.], red.; MATVIYCHUK, O.O., tekhn.red.

[Petrography of dike effusive complexes in the southwestern Donets Basin] Petrografiia daikovo-efuzivnogo kompleksa povidenn-zakhidnogo Donbasu. Kiev, Vydavnytstvo Akad.nauk URSR, 1961. 141 p. (Akademija nauk URSR, Kiev. Instytut geologichnykh nauk. Trudy, Seriya petrografii, mineralogii i geokhimii, no.15). (MIRA 15:5)
(Donets Basin--Rocks, Igneous)
(Donets Basin--Dikes (Geology))

TKACHUK, L.I., slesar'; SHERKUNOV, G.S., inzh.

Machine for cutting foamed concrete blocks. Suggested by L.I.
Tkachuk, G.S.Sherkunov. Rats.i izobr.predl.v stroi. no.14:37-39
'60. (MIRA 13:6)

1. Stroitel'nyy trest No.42 Chelyabinskogo sovnarkhoza,
Chelyabinsk.
(Concrete blocks) (Cutting machines)

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Temas of a new type. Zemledelie 27 no.6:13-14 Je '65. (MIRA 18:9)

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1. Institut geologii AN Turkmeneskoy SSR.
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New stratigraphic scale of Paleogene sediments in the central Kara Kum in connection with prospecting for oil and gas structures. Izv. vys. ucheb. zav.; neft' i gaz 5 no.7:15-18 '62.
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1. Moskovskiy institut neftekhimicheskoy i gazovey promyshlennosti imeni akademika Gubkina.
(Kara Kum—Geology, Stratigraphic)

TKACHUK, M.A.

Distribution of Asterigerina lucida Minakova in the Paleogene
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l. Tsentral'naya kompleksnaya tematicheskaya ekspeditsiya
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TKACHUK, N., mladshiy serzhant

Operators' skills are the main thing. Starsh.-serzh. no.2:21
F '62. (MIRA 15:4)
(Radiotelegraph)

ACC NR: AP6030373

SOURCE CODE: UR/0051/66/020/006/1030/1039

AUTHOR: Tkachuk, A. M.; Tolstoy, N. A.

ORG: none

TITLE: Optical properties of platinocyanide compounds. III. Luminescence of frozen solutions. Concentration dependences

SOURCE: Optika i spektroskopiya, v. 20, no. 6, 1966, 1030-1039

TOPIC TAGS: platinum compound, cyanide, luminescence spectrum

ABSTRACT: The article investigates luminescence spectra and relaxation spectra of frozen aqueous solutions of calcium, barium, and lithium platinocyanide. It is shown that luminescence properties of frozen solutions depend on the dimensions of formations obtained in the solution during freezing. Given low concentrations ($C \leq 5 \cdot 10^{-7}$ mol/mol) in the frozen solution, there form monomers and dimers consisting of one or two complexions with a charge which can be compensated by cations of the dissolved salt or by protons of water. The luminescence of frozen solutions of average concentration ($5 \cdot 10^{-7} \leq C \leq 5 \cdot 10^{-6}$ mol/mol) is due to seeds consisting of a small number of molecules of the dissolved salt (from 3 to 20). The luminescence of frozen solutions of high concentration ($C \geq 5 \cdot 10^{-6}$ mol/mol) is caused by the luminescence of the microcrystals of frozen salt which precipitate during freezing of the solution. Luminescence spectra contain a band characteristic of macrocrystals with some quantity of water of crystallization. Orig. art. has: 4 figures and 1 table. [JPRS: 36,866]

SUB CODE: 07, 20 / SUBM DATE: 20Mar65 / ORIG REF: 004 / OTH REF: 001

Card 1/1

UDC: 535.37:532.77(206.1)

TKACHUK, N.I.

Hydroelectric power station of the Letnya school. Fiz. v shkole 13 no.3:
93-95 My-Je '53. (MLRA 6:6)

1. Drogobychskiy pedagogicheskiy institut. (Hydroelectric power stations)

TKACHUK, N.I.

The role of a physics and technology club in training
students for practical activity. Politekh.obuch. no.11:79-84
N '57. (MIRA 10:10)

1.Drogobychskiy pedagogicheskiy institut.
(Physics--Study and teaching)

TKACHUK, N.I.; MINIOVICH, I.A.

Practices of two pharmacies. Apt.delo 3 no.2:39-43 Mr-Ap 154.
(MLRA 7:4)

1. Upravlyayushchiy aptekoy No. 24 Kiyeva (for Tkachuk).
2. Assistent kafedry organizatsii farmatsevticheskogo dela Kiyevskogo instituta usovershenstvovaniya vrachey (for Minovich).
(Drugstores)

TKACHUK, N.I.

Hydroelectric power station of the Oriava high-school. Fiz. v
shkole 14 no.3:59-62 My-Je '54. (MLRA 7:7)

1. Pedagogicheskiy institut, g. Drogobych.
(Oriava--Hydroelectric power stations) (Hydroelectric power stations--Oriava)

TKACHUK, N.N.

The relaxation time for the luminescence of cuprous oxide and its temperature dependence. N. A. Tolstof and N. N. Tkachuk. Doklady Akad. Nauk S.S.R. 95, 65-8 (1953).
The relaxation time of Cu₂O was measured by means of an ultrataurometer which is described in detail and which registers inertia of the order of 1×10^{-4} sec. The measurements were made over a temp. range -183-20°. The relaxation time τ was found to increase with increasing temp. by a factor of 20-40 in the given range. This anomalous temp. dependence excludes the possibility of monomol. mechanism for the luminescence of Cu₂O. The following conclusions are drawn: Cu₂O luminescence is due to a recombination mechanism with a large difference in the no. of recombining partners (free electrons are fewer than luminescence centers); the lifetime of a center is $3-4 \times 10^{-4}$ sec.; the lifetime of an electron in the band of cond. $< 3 \times 10^{-4}$ sec. at -183° and increases to $\approx 10^{-6}$ sec. at room temp.
J. Roytar Lench

USSR/Optics

Abs Jour: Referat Zhur-Fizika, 1957, No 4, 10619

Author : Tkachuk, N.N., Tolstoy, N.A.

Inst : State Optical Institute, USSR

Title : Instrument for Measurement of Relative Pulsations of Light Fluxes.

Orig Pub: Svetotekhnika, 1955, No 2, 27-29

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Abstract: Description of a method and of an instrument for rapid objective measurement of the relative pulsations of light flux. The direct purpose of the instrument is the measurement of the stroboscopic effect of fluorescent lamps. The studied light flux is received by an antimonycesium photocell (equipped with light filters, including a light filter that "equates" the photocell to the eye). The signals from the photocells are received by a dc amplifier, fed from the power line. A dividing network on the output of the amplifier separates the purely alternating portion of the signal

Card : 1/2

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